

**Friday October 19, 2018**

**Earlier Time 7:00pm**

**San Ramon Marriott Hotel**

**SALON E at PACIFICON !**

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## **OCTOBER MEETING AT PACIFICON !**

# **ANTENNA TECHNIQUES FOR ACHIEVING MULTI- BAND OPERATION ON VHF AND UHF FREQUENCIES**

Our speaker, Ed Fong, WB6IQN, is the inventor of the DBJ-1 and DBJ-2 antenna that was featured in the February 2003 and March 2007 *QST* magazine issues. His most recent antenna was the TBJ-1 – a tri-band base antenna that was published in March 2017 *QST*. The DBJ-1 is a highly effective dual band VHF/UHF base station antenna and the DBJ-2 is the portable roll up version. The DBJ-2 won the *QST* Plaque of the Month Award. Both of these antennas are featured in the *ARRL Antenna Book* and also in the book *ARRL Antenna Classics*. There are over 20,000 of these antennas in use today. About half are used by hams and the other half by government and commercial agencies.

Ed will give a history on how these antennas were developed and the theory on how and why they work so well. There is no “black magic” to antennas. He will explain in a non-mathematical manner to convince you for overall performance and simplicity his approach is one of the most practical.

Ed Fong was first licensed in 1968 as novice class WN6IQN. He later upgraded to Extra Class with his present call of WB6IQN. He obtained the BSEE and MSEE degrees from the University of California at Berkeley and his Ph.D. from the University of San Francisco. A Senior Member of the IEEE, he has 12 patents and over 40 published papers and books in the area of communications and integrated circuit design. Presently, he is employed by the University of California, Santa Cruz (previously with Berkeley from 1997-2010) as an instructor teaching graduate classes in RF design and high speed interface. In his 35 year career, he has done work for Stanford University, National Semiconductor, Advanced Micro Devices and numerous startup companies in the Silicon Valley.

# WELCOME NEW MEMBERS

**Ralph Anthenien (callsign pending)**

**Douglas Dreger, KI6UJH**

**Parker Mitchell, KK6OKZ**

If you hear any of these new members on the air, please welcome them to our club.

— *Tom Deeble, KA6SIP*



**When you purchase at Amazon dot com smile, a portion of your purchase is donated to our club.**

**Go to:**  
**<https://smile.amazon.com/ch/23-7072059>**

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ALL MEMBERS ARE INVITED TO JOIN THE CLUB E-MAIL GROUP.  
DOWNLOAD FILES, INCLUDING *THE CARRIER* IN **FULL COLOR** AS WELL AS SHARE INFORMATION WITH THE MEMBERSHIP AT:

**<https://groups.io/g/MDARC>**

*(the Yahoo group will be abolished)*

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**Mount Diablo Amateur Radio Club W6CX**  
**P.O. Box 23222 Pleasant Hill, CA 94523**  
**(925) 288-1730**

*The Carrier* is a monthly publication of the Mount Diablo Amateur Radio Club (MDARC). It is the policy of the editor to publish all material submitted by the membership provided such material is in good taste, relevant to amateur radio and of interest to MDARC members, and provided space is available.

**President** - Larry Bradley, KK6QPE

**Vice President** - Ed Morales, KJ6KYT

**Secretary** – Dick Fletcher, AF9RF

**Treasurer** - Cathi Walton, K2CJW

**Emergency Coordinator** - Ron Bunch, W4FEK

## **Directors At Large**

Trevor Hall, WA6JAU

Terry Buxton, KK6KGX

Janice Fujii, KG6VTD

John Primus, AF6RJ

**Membership Chair** – Tom Deeble, KA6SIP  
[mdarcmembership@mdarc.org](mailto:mdarcmembership@mdarc.org)

## **PACIFICON 2018**

Chair: Misa Siemons, KJ6BUE

Registration: Tom Deeble, KA6SIP & Debbie Deeble

Treasurer: Jim Siemons, W6LK

Secretary: Pete Harris, KE6ZIW

## **COMMITTEES**

Annual Auction - Jim Siemons, W6LK

Communications Trailer - Larry Loomer, KI6LNB

Communications Van - Lauren Styles, WA6CIE

Digital Media - Mike Patterson, N6JGA

Education & Training - John Primus, AF6RJ

Field Day - Larry Loomer, KI6LNB

Good & Welfare Coordinator - Diana Sage, KA6TZU

Holiday Party - Misa Siemons, KJ6BUE

License Testing - Larry Loomer, KI6LNB

Outreach Coordinator - Jim Siemons, W6LK

Public Service - Klaus Berkner, K6KHB

Refreshments: Elizabeth Styles, KG6HLV

Repeater Trustee W6CX - Jay Caldis, KT6Y

Technical Committee Chair - Jim Siemons, W6LK

Trustee W6LGW - Dick Brown, KT6X

## ***The Carrier* Newsletter**

Editor, Matthew G. Vurek, N4DLA

[n4dla\\_cs245@yahoo.com](mailto:n4dla_cs245@yahoo.com)

Proofreader - Larry Loomer, KI6LNB

Printing: Tom Deeble, KA6SIP

## ***Amateur Television Help and Information:***

Fred Coe, WB6ASU

[wb6asu@icloud.com](mailto:wb6asu@icloud.com)

# Volunteers needed for Mount Diablo Event on November 3

The “Mount Diablo Summit Stomp,” a running and bicycling race, needs ham radio operators to assist the course marshals. All you need is a hand-held FM transceiver (although mobile units are also welcome). The weather is usually nice this time of year, and if you haven't been up on Diablo for a while, you will be thrilled by the fantastic views from up there.

If you are interested, please contact Larry Loomer, KI6LNB, larylloomer@yahoo.com .

Klaus Berkner, K6KHB  
Public Service Coordinator

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**Kristen McIntyre,  
K6WX, Teaching  
“Radio Signals and  
Measurements” at  
the Amateur Extra  
License Class Course  
at Concord Salvation  
Army on October 4,  
2018**

**ARRL Pacific Division Vice Director  
K6WX is also an ARRL East Bay Section  
Technical Coordinator.**

*Submitted by Jim Siemons, W6LK,  
ARRL East Bay Section Manager*



# President's Message



**October 2018**

MDARC Family,

Did you feel the rain this morning? Sure, it wasn't much, but it sure made things smell nice and hopefully a portent of things to come.

September is gone.....whoosh....and now we are into October. You know what that means.....Pacificon! I hope you attend, not to just to look over the vendor booths, but to reconnect with old buddies and make some new friends.

Not been in a while? Thinking that the mayhem between forums is going to be another nightmare not to be endured, then think again, because scheduling allows for a 10-minute make-your-way period. Hey, you might be able to get a latte on the way. But seriously, scheduling between forums implemented last year really worked well and we got a lot a high 5s.

October means we are approaching MDARC election time. The candidates are likely included in this month's Carrier, but remember, you can still nominate a candidate and at the November General Meeting on the 19<sup>th</sup>, you can still nominate as candidate. Remember, this is YOUR club and it is your participation that makes it what it is. We like to think it is a great club, but we also like to make it even better. The best of the best. You can help by nominating somebody or even yourself for our Board officers. There is also a real need for Standing Committee Chairs. For example, we are looking for somebody to step up and take on the 2019 Pacificon Chair and the Membership Coordinator position. Obviously these are very important positions for making our club the best of the best.

Again, as I write this, I am sitting in my ham shack with the door open to the cool evening air and darkness. Our dog, Angel, is laying here as well and ever watchful for the animal noises in our backyard and creek. While she dreams of the black cat that lurks around here or of the rats she loves to catch in the chicken run, I'm thinking about rearranging the radio gear, moving or replacing the HF antenna, and setting up for solar backup power. Ah, those ham dreams!

Say, I didn't see you at the Walnut Festival Twilight Parade. You missed a great parade with local school bands showing at their very best. Of course, it was even more fun participating as an amateur radio operator. I shadowed the Parade Chair and it was a lot of fun.

Since that role meant that I was at the very beginning of the parade, there were not many good photo opportunities. However, I really did like the miniature horses and when I jokingly mentioned later to my wife that I wanted one, she said "no way." Go figure! Did you know that miniature horses can be considered service animals? Hmm, I can see it now, the look on the faces when taking one into Fleming's Steakhouse.



Well, that about does it from me.

***"The greatest motivational act one person can do for another is to listen."*** Roy E. Moody

73 Larry Bradley KK6QPE

10/02/18

## **Nominations for the 2019 MDARC Club Officers and Directors**

**President**            Larry Bradley - KK6QPE  
**Vice President**    Ed Morales - KJ6KYP  
**Treasurer**        Cathi Walton - K2CJW  
**Emergency Coordinator**   Ron Bunch - W4FEK

### **SECRETARY - ONE ONLY - Listed in alphabetical order (one year term)**

**Secretary**        Roger Hooten - W6UZ  
                      Larry Loomer - KI6LNB

### **DIRECTORS - TWO ONLY - Listed in alphabetical order (2 year term)**

**Director**         Eric Ferguson - KA6USJ  
                      Ben Heathorn - KI6WBH  
                      .   Dave Piersall - N6ORB  
                      Mike Warren - W6MEW

These are the nominations for the 2019 MDARC Officers. A ballot for voting by email will be sent to all members in November. Email voting deadline will be November 14, 2018. Paper ballots will be available at the November 16, 2018, membership meeting. The votes will be tallied at the November meeting (Deadline is 7:45 PM.), and the election results will be announced at that meeting.

The graphic features the word "Election" in a large, bold, black sans-serif font. Below it, the year "2018" is written in a very large, bold, red sans-serif font. To the left of the "2018", there is a gray square containing a white checkmark. A red diagonal line starts from the top right of the checkmark and extends upwards and to the right, crossing over the "E" in "Election".



# Meet Your Fellow Club Members

**Ben Heathorn   Callsign KI6WBH**

*What got you interested in ham radio?*

I got interested in Ham Radio in two parts first was that my grandmother became a ham and a friend (and Elmer) pushed me to get my tech license for many reasons the top two were because i was good with electronics and that my grandmother could do it.

*When and where did you become a ham? Is any member of your family a ham?*

I count myself as becoming a ham in 2007 when I first experienced Field Day, I was just SWL for a year. I achieved my tech and general license June 08 in the first time I used my original call sign (KI6RSU) was at that Year's field day. Later that year I changed my call sign to KI6WBH. The last of my license Journey was in February of last year when I achieved my extra class license and VE accreditation.

*What ham radio activities to you enjoy the most?*

I love making random contacts on HF and I'm currently working on my WAS (worked all states) in the 20 and 40m bands aiming for 5BWAS any chance i can. Something that has become important to me in this last year has been administering the license testing with Larry KI6LNB and the rest of our open and welcoming VE team mostly at the MDARC meetings and pacificon. In truth me my calendar changed when I became a Ham with Field Day and Pacificon becoming permanent fun fixtures in my year. most people I may only know me from working security at Pacificon as I and I'm always on the floor if needed.

*What is your favorite thing to do in MDARC?*

I like the fact that we have a program every meeting each of them being a good for stepped into a part of ham radio and The Wider Technologies and services that are connected with our Hobby. Of course I live for the community and contesting a field day as well as the challenge. The other things that I like doing have to do with our training class and companion grup SATERN, helping out being part of the technical committee that helps keep the training classes and the Saturn radio room (K6TSA) running.

*How would you improve the MDARC Club?*

I would like to encourage more and open involvement in public service events, community outreach, youth groups, and disaster training.

*What future plans and ambitions do you have for your interest in ham radio?*

I would like to do more Public Service events and I have two projects that I am currently in the design stage the first is a ATV helmet that can work with our ATV repeater. The other project is a ATV remote control wheeled robot or quad copter (not a drone) on our RC portion of the 6 meter band.

*Do you have future plans and ambitions with MDARC?*

I don't have any true future plans or ambitions with MDARC however I would love to see more Community involvement and I would love for pacificon to rival Dayton, however I know that is a long way off if possible at all. I am a candidate for club board of directors.

# Meet Your Fellow Club Members

## Michael E. Warren, W6MEW



*What got you interested in ham radio?*

During the CB craze of the 1970's, I thought I'd like to upgrade to Amateur Radio privileges, and became proficient in CW and obtained my license. Original call sign was WD4FDD in Miami, Florida. Unfortunately, upon moving to California in 1982, I was unable to set up my radio equipment and allowed my license to expire.

*When and where did you become a ham? Is any member of your family a ham?*

Originally licensed at the Miami, FL FCC office in 1978 (WD4FDD) I again took the Technician test after taking the class at SATERN/MDARC in 2017.

(KM6NGU) I then took the SATERN/MDARC General class and obtained my General license, and a vanity call sign, W6MEW, in early 2018. I am an orphan HAM in my family. Neither of my two brothers, mom or dad were hams Nor or any of our four children. I don't know of any other relatives which are licensed hams. I am now taking the SATERN/MDARC Extra class and intend to take the exam at our November meeting. My wife of 46 years, Marilyn, has been extremely supportive in my ham radio activities.

*What is (was) your profession? Do you have any other hobbies and interests?*

I retired from the Bay Area Rapid Transit (BART) Police Department in 2007 after working 21 years as a police officer. Much of that time was spent on a Federal Task Force investigating kickbacks and contract fraud at BART with a team of FBI and IRS Agents. I was also a Field Training Officer (FTO) and Hostage Negotiator with BART PD. Other hobbies include Astronomy (I am a member of the Mt. Diablo Astronomical Society, MDAS), and collecting Curio and Relic Military Firearms. Of course, my biggest interest is being Pawpa to our 7 grand children and 3 great-grandchildren!

*What ham radio activities do you enjoy the most?*

Marilyn and I both enjoy participating in public service opportunities. We have both spent many hours reconditioning and reconfiguring the MDARC Communications Trailer for use as a mobile classroom and mobile emergency communication facility. My original shack in Miami was setup more geared towards SSB DXing as at the time the bands were more active than they are currently. I bought a new to me Yaesu FT-401B in 1978 which worked well for that purpose. With the decline in band activity today, I am now working low power digital modes, in particular FT8. These have been very productive as I have worked every US state, all continents and 54 countries since April 2018. I have also Elmer'ed fellow club members in the use of the FT8 software and setup. I look forward to joining the VE ranks after obtaining my Extra license. I have reconditioned that FT-401B and it sits proudly (and working) on the desk in my shack!

*What is your favorite thing to do in MDARC?*

So far, after joining MDARC in October 2017, Field Day 2018 has been my favorite Club event. As discussed, I have been busy working on the Club Communications Trailer and look forward to taking it to area school STEM (Science, Technology, Engineering & Math) events and other public events. It will also be used as a resource for area Scouts and Girl Scout Merit Badge classes. I also enjoy the Club Auction Night. I have attended Pacificon once in 2017 (will be out of town for this year's) and look forward to becoming involved as a Pacificon volunteer. Security may be a good fit!



# Meet Your Fellow Club Members - Continued

*What is your favorite thing to do in MDARC?*

So far, after joining MDARC in October 2017, Field Day 2018 has been my favorite Club event. As discussed, I have been busy working on the Club Communications Trailer and look forward to taking it to area school STEM (Science, Technology, Engineering & Math) events and other public events. It will also be used as a resource for area Scouts and Girl Scout Merit Badge classes. I also enjoy the Club Auction Night. I have attended Pacificon once in 2017 (will be out of town for this year's) and look forward to becoming involved as a Pacificon volunteer. Security may be a good fit!

*How would you improve the MDARC Club?*

One thing which needs immediate attention, is the way MDARC invests its surplus funds. A strategy needs to be put into action which will get the Club the most return on funds, which now, as I see it, just languish in a low interest account. As a registered §501(c)(3), much of these surpluses should be invested back into the Club, such as reducing member annual dues, sponsoring area school amateur clubs, upgrading club resources, etc. Already discussed are plans for more public outreach in the form of visiting schools, libraries, and other public events where the area youth can be introduced to and become interested in amateur radio as a hobby. THE YOUTH OF THE AREA ARE THE FUTURE OF AMATEUR RADIO! We need to get them involved!

*What future plans and ambitions do you have for your interest in ham radio?*

Marilyn and I plan to do more outreach events. I am waiting patiently for the upcoming solar cycle to do more HF voice mode QSO's. Elmering and mentoring new amateurs and getting the youth in our area interested in our hobby.

*Do you have future plans and ambitions with MDARC?*

As a member of the MDARC Communications Trailer Committee, I look forward to maintaining and making sure the Trailer is kept up to date and operational. I am running for a Director at Large seat on the MDARC Board in the upcoming election. I hope my vision of our Club's future is your vision also. If the membership believes I am worthy of the position, I hope you will cast your vote for Michael E. Warren, W6MEW.



# Meet Your Fellow Club Members

## Roger Hooten, W6UZ

*What got you interested in ham radio?*

A Florida friend, who was a ham, mentored me and a few other high schoolers to get our novice, way back when. I still communicate with him on packet radio now.

*When and where did you become a ham? Is any member of your family a ham?*

I received my Novice in Florida in 1965. I was active for a short time and then put it on the shelf due to moving around, but kept the license renewed. I upgraded to an Advanced in Colorado some years later. Finally had enough of procrastination and went through all the MDARC classes to refresh. If I passed the Extra, I would buy a decent rig, which I did.

*What is (was) your profession? Do you have any other hobbies and interests?*

Retired from IT Project Manager in health care. I like biking and camping, and drinking craft beer, but radio is where my heart is.

*What ham radio activities do you enjoy the most?*

My main activities are fiddling with my wire antenna farm – keeping peace with the neighbors – “don’t mention the antenna!” I like HF DX. But have stated dipping my toe into FT-8, RTTY and Packet (of all things). CW is next on the list since I had to use it to get my Advanced back in the day. I have helped in several of the MDARC public service events, and I join in on a number of the Thursday EMCOMM nets. I have also volunteered at PACIFICON for several years.

*What is your favorite thing to do in MDARC?*

I like the DX group discussions, learning from other experienced hams, and the MDARC programs.

*How would you improve the MDARC Club?*

Try to encourage the old experienced hams to strike up conversations with new hams and strangers in the meetings.

*What future plans and ambitions do you have for your interest in ham radio?*

Get into CW.

*Do you have future plans and ambitions with MDARC?*

Just continue to support the club. I am a candidate for club secretary. I am scheduled to make a presentation early next year.

Presided over by: President, Larry Bradley, KK6QPE

Recorded by: Richard Fletcher, AF9RF, Secretary

The meeting was held at the Black Bear Diner, 700 Bancroft Road, Walnut Creek, Calif., and was opened at 7:02 PM.

There were 13 attendees:

Misa Siemons, KJ6BUE, Jim Siemons, W6LK, Cathi Walton, K2CJW, Ron Bunch, W4FEK, Terry Buxton, KK6KGX, Ed Morales, KJ6KYT, Mike Patterson, N6JGA, Larry Loomer, KI6LNB, Trevor Hall, WA6JAU, Eric Ferguson, KA6USJ, Janice Fujii, KG6VTD, Cal Vasquez, K6VT, Dick Wade, WM6G

The minutes from the previous Board meeting were approved.

Treasurer Cathi introduced the monthly financial report and answered numerous questions on many seemingly hot budget entries. Two were “MDARC Balance” which was \$43,092.45 and the “Total Account Balances” which was \$144,483.86.

Jim Siemons described the new return loss bridge which he said will be in use tomorrow.

Misa Siemons reported that “overnight help” is still a difficult job at Pacificon. Also we need a Pacificon Chair person.

A discussion ensued about the Field Day location for next year. No location was decided on at this time.

It was noted that the discrepancy with Test Booklet #1 was repaired.

The meeting concluded approximately 8:20pm

Respectfully Submitted,

Richard W Fletcher, AF9RF





# Parachute Mobile Mission 33 October 20, 2018



Mark, AF6IM



Rob, KC6TYD

**146.430 simplex**

**14.250 USB**

Make a contact with a skydiver  
and receive a one of a kind  
QSL card!

LIVE STREAMING VIDEO AT [USTREAM.TV/CHANNEL/MFWRIGHT](https://ustream.tv/channel/mfwright)



Follow the jumpers at

**aprs.fi**

Parachute mobile.org or Facebook

# Turlock Amateur Radio Club Fall (Estate) Auction

Large Estates - Lots of Military Collectables

Check pictures at [www.w6bxn.org/auction/](http://www.w6bxn.org/auction/)  
Additional Items pending

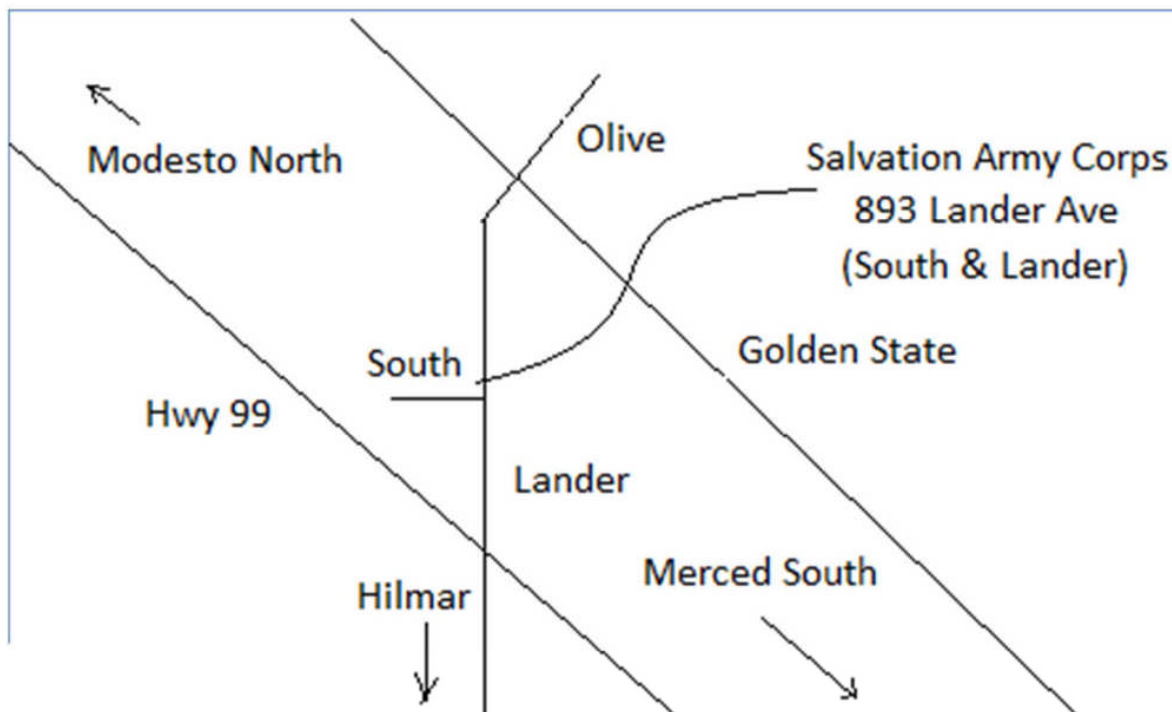
Salvation Army Corps. Turlock CA  
893 Lander Ave

Saturday October 27, 2018

Doors open 8:00 am, Auction begins at 9:00

Lunch Fixins by Kurt and Krew

Looking forward to the new venue  
spread the word, this one is a DON'T miss!





# HAM RADIO OUTLET

14 STORE BUYING POWER!

**ICOM**



## IC-7600 | All Mode Transceiver

- 100W HF/6m Transceiver, gen cov. receiver • Dual DSP 32 bit • Three roofing filters- 3, 6, 15kHz • 5.8 in WQVGA TFT display • Hi-res real time spectrum scope



## IC-7200 | HF Transceiver

- 160-10M • 100W • Simple & tough with IF DSP • AGC Loop Management • Digital IF Filter • Digital Twin PBT • Digital Noise Reduction • Digital Noise Blanker • USB Port for PC Control



## IC-7100 | All Mode Transceiver

- HF/50/144/430/440 MHz Multi-band, Multi-mode, IF DSP • D-STAR DV Mode (Digital Voice + Data) • Intuitive Touch Screen Interface • Built-in RTTY Functions



## ID-5100A | VHF/UHF Dual Band Digital Transceiver

- Analog FM/D-Star DV Mode • SD Card Slot for Voice & Data Storage • 50W Output on VHF/UHF Bands • Integrated GPS Receiver • AM Airband Dualwatch • FM Analog/DV Repeater List Function

## ID-51A | VHF/UHF Dual Band Transceiver

- 5/2.5/1.0/0.5/0.1W Output • RX: 0.52-1.71, 88-174, 380-479 MHz\*\* • AM/FM/FM-N/WFM/DV • 1304 Alphanumeric Memory Chls • Integrated GPS • D-STAR Repeater Directory • IPX7 Submersible



**KENWOOD**



## TS-590SG | HF/50MHz Transceiver

- Equipped with 500 Hz/2.7 kHz roofing filter as standard • ALC derived from TS-990S eliminating spike issues • Antenna output function (shared with DRV connector) • CW - morse code decoder function



## TM-D710G | 2M/440 Dualband

- V+V/V+U/U+U operation • Built-in GPS • Built-in TNC for APRS & DX-Cluster operation • 50W 2M & UHF • 1,000 memories • Dual receive • Green or amber backlight colors • Latest APRS firmware w/new features • Sky Command II remote functions



## TM-V71A | 2M/440 DualBand

- High RF output (50W) • Multiple Scan • Dual receive on same band (VxV, UxU) • Echolink® memory (auto dialer) • Echolink® Sysop mode for node terminal ops • Invertible front panel • Choice of green/amber for LCD panel • 104 code digital code squelch



## TM-281A | 2 Mtr Mobile

- 65 Watt • 200 Memories • CTCSS/DCS • Mil-Std specs • Hi-quality audio

## TH-F6A | 2M/220/440

- Dual channel receive • .1 - 1300 MHz (cell blocked) RX • FM, AM, SSB • 5W 2M/220/440 TX, FM • 435 Memories • Li-Ion Battery



**YAESU**  
The radio



## FT-991 | HF/50MHz/2M/440 Transceiver

- 160 M-440MHz - SSB/CW/FM/C4FM Digital/AM/RTTY/PSK • 100 W (2M/440: 50 Watts) • 3.5" TFT full-color touch panel operation • High speed spectrum scope • Roofing filters: 3kHz & 15kHz • 32-bit high speed floating point IF DSP



## FTDX1200 | 100W HF + 6M Transceiver

- Triple Conversion Receiver With 32-bit Floating Point DSP • 40 MHz 1st IF with selectable 3 kHz, 6kHz & 15 kHz Roofing Filters • Optional FFT-1 Supports AF-FFT Scope, RTTY/PSK31 Encode/Decode, CW Decode/Auto Zero-In • Full Color 4.3" TFT Display



## FT-450D | A100W HF + 6M Transceiver

- 100W HF/6M • Auto tuner built-in • DSP built-in • 500 memories • DNR, IF Notch, IF Shift



## FTM-400DR | 2M/440 Mobile

- Color display-green, blue, orange, purple, gray • GPS/APRS • Packet 1200/9600 bd ready • Spectrum scope • Bluetooth • MicroSD slot • 500 memory per band

## FT-60R | 2M/440 5W HT

- Wide receiver coverage • AM air band receive • 1000 memory channels w/alpha labels • Huge LCD display • Rugged die-cast, water resistant case • NOAA severe weather alert with alert scan



5 Ways to Shop!

- RETAIL LOCATIONS - Store hours 10:00AM - 5:30PM - Closed Sunday
- PHONE - Toll-free phone hours 9:30AM - 5:30PM
- FAX - All store locations
- ONLINE - [WWW.HAMRADIO.COM](http://WWW.HAMRADIO.COM)
- MAIL - All store locations

ANAHEIM, CA  
(800) 854-6046

OAKLAND, CA  
(877) 892-1745

BURBANK, CA  
(877) 892-1748

SAN DIEGO, CA  
(877) 520-9623

NEW CASTLE, DE  
(800) 644-4476

PORTLAND, OR  
(800) 765-4267

DENVER, CO  
(800) 444-9476

PHOENIX, AZ  
(800) 559-7388

ATLANTA, GA  
(800) 444-7927

WOODBIDGE, VA  
(800) 444-4799

SALEM, NH  
(800) 444-0047

PLANO, TX  
(877) 455-8750

ONLINE STORE  
[WWW.HAMRADIO.COM](http://WWW.HAMRADIO.COM)

New Store!

Contact HRO for promotion details. Toll-free including Hawaii, Alaska and Canada. Call will be routed to the nearest store. All HRO 800-lines can assist you. If the first line you call is busy, you may call another. AZ, CA, CO, GA, VA residents add sales tax. Prices, specifications and descriptions subject to change without notice.





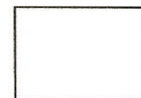
## The Carrier

Newsletter of the Mt. Diablo Amateur Radio Club

P.O. Box 23222

Pleasant Hill, CA 94523

[www.mdarc.org](http://www.mdarc.org)



# THIS MONTH !!!!

# FIRST CLASS



<https://www.facebook.com/mdarc.org>

## W6CX Nets

*M-F 5:42 am Morning Muster 147.060+ 224.781- 441.325+*

*M-F 6:10am Commuter Net 147.060+ 224.781- 441.325+*

*Monday 8:00 pm SATERN Net 147.060+*

*Tuesday 7:30 pm Fat City 10 meter USB/CW Net 28.420 MHz*

*Tuesday 8:00pm Digital Practice Net 147.060+ 224.781- 441.325+*

*Wednesday 7:00 pm SKYWARN Net 147.060+*

*Thursday 7:30 pm MDARC Club Net 147.060+*

*Thursday 8:00 pm Amateur Television Net 147.060+*

*FM 147.060 MHz + / PL 100Hz -*

*224.780 MHz - / PL 77Hz 441.325 MHz + / PL 100Hz*

*EchoLink: W6CX-R /133896, IRLP: 3057*

**<https://www.broadcastify.com/listen/feed/25334>**

**D-STAR 145.000 offset plus 2.5 MHz**

**<https://w6cx.dstargateway.org/>**

**Digital ATV Output 1244.500 Digital ATV Input 1292.500**

**Analog ATV Inputs: 1270.000 FM (PL 192.8) 915.0 AM**

**ATV Internet Stream: <http://w6cxatv.mdarc.org/>**

## Contra Costa County Emergency Communications Nets

*Every Thursday*

<http://www.coco-races.org/meetings/nets/>

*6:35 pm HF Countywide 3.893 MHz LSB*

*6:45 pm West County 145.110-- (82.5 PL)*

*7:00 pm Central County 145.680 Simplex*

*7:00 pm East County 146.535 Simplex*

*7:00 pm South County 147.480 Simplex*

*7:20 pm Countywide 145.490-- (107.2 PL)*

*or 147.735-- (107.2 PL)*

*or 145.410-- (107.2 PL)*

## Concord Auxiliary Radio Emergency Service (CARES)

*Wednesday 8:00pm 147.405 Simplex*

## October and November 2018 Club Calendar

Friday October 19, 2018	<b>7:00pm</b>	MDARC General Meeting — <b>at PACIFICON</b> — Salon E San Ramon Marriott Hotel, 2600 Bishop Drive, San Ramon
Saturday November 3, 2018	8:00am	MDARC Technical Committee Meeting - Ygnacio Valley Library 2661 Oak Grove Road, Walnut Creek
Monday November 5, 2018	7:00pm	MDARC Board Meeting Black Bear Restaurant, 700 Bancroft Avenue, Walnut Creek
Friday November 16, 2018	7:30pm	MDARC General Meeting - Our Savior's Lutheran Church 1035 Carol Lane, Lafayette